Claims

- [01] 1. A method of fabricating a precision circuit element comprising:
 - creating one or more redundant circuit elements; creating one or more trim circuit elements; creating one or more links coupling said redundant circuit elements to said trim circuit elements; selectively activating one or more of said links to achieve a desired capacitance.
- [02] 2. The method of claim 1 where said links are fusible links and said activating comprises blowing of said fusible links.
- [03] 3. The method of claim 1 where said links are antifuses and said activating comprises fusing of said antifuses.
- [04] 4. A method of fabricating a precision capacitor comprising: creating one or more redundant plates; creating one or more trim plates; creating one or more links coupling said redundant plates to said trim plates; creating a common plate capacitively coupled to said re-

dundant plates and said trim plates; and selectively activating one or more of said links to achieve a desired capacitance.

- [c5] 5. The method of claim 4 where said links are fusible links and said activating comprises blowing of said fusible links.
- [06] 6. The method of claim 4 where said links are antifuses and said activating comprises fusing of said antifuses.
- [c7] 7. A method of fabricating a precision capacitor comprising:

creating a capacitor having a first plate and a second plate, said first plate capacitively coupled to said second plate;

creating a plurality of trim capacitors each having a first trim plate and a second trim plate said first trim plate capacitively coupled to said second trim plate; connecting, in series, said capacitor and said trim capacitors;

connecting one or more links in parallel with each of said trim capacitors; and selectively activating said one or more of said links to achieve a desired capacitance.

[08] 8. The method of claim 7 where said links are fusible

links and said activating comprises blowing of said fusible links.

- [09] 9. The method of claim 7 where said links are antifuses and said activating comprises fusing of said antifuses.
- [c10] 10. A method of forming a capacitor comprising: depositing a first insulator film; etching a first trough;

depositing a first liner within said first trough; depositing a first conductive electrode within said trough;

polishing off excess material;

depositing a second insulator film over said first conductive electrode;

etching a second trough extending through said second insulator film extending to said first copper electrode; cleaning surfaces;

applying a thin dielectric over said exposed first copper electrode:

depositing a second liner;

depositing a second copper electrode; and polishing off excess material.

[c11] 11. The method of claim 10 wherein said applying is depositing a thin dielectric.

[c12] 12. The method of claim 10 wherein said applying is growing a thin dielectric.